WyreStorm

HD DISTRIBUTION AND CONTROL

HD DISTRIBUTION SOLUTIONS FOR RESIDENTIAL / COMMERCIAL
HOSPITALITY / RETAIL AND EDUCATIONAL SECTORS

PRODUCT GUIDE 2012/2013

INTRODUCING

Wyrestorm is an award-winning electronics manufacturer passionately committed to the development and production of high quality HD distribution and control products at the very forefront of digital technology.

We have our own development laboratories based in Europe and Shenzhen, China – a key location in cutting edge technologies considered widely to be the cradle of new trends in global electronics.

With a research and development team ranking among the leading specialists in the HD distribution industry, our innovative solutions are often born from direct industry feedback to ensure our products, features and services are perfectly suited to the ever-growing number of residential and commercial applications.

Here at Wyrestorm we follow a simple but all-encompassing philosophy that colours everything we do: A constant quest for perfection. We devote all our energies and resources to the creation of innovative products and services that allow the integrator to supply a superior entertainment experience for their clients – and do so faster and more efficiently to maximise budget, while minimising time on site.

The best way of achieving this is by talking to and, most importantly, listing to the industry - encouraging observations and suggestions from distributers and integrators that allow us to provide you with the most powerful, reliable and convenient technical solutions you need to constantly surpass your client expectations.

GLOBAL COVERAGE

With Wyrestorm offices in the US, Europe and Asia, all populated by devoted staff with a genuine passion for the success of your projects, we can ensure a safety net of in-depth technical assistance, detailed product specifications and accurate purchasing information is available 24 hours-a-day to support local distributors and installers in individual markets throughout the world.

Visit us at www.wyrestorm.com for more details and contact information

INDEX

2–3 **HDBASET FULL MATRIX SOLUTIONS**
WYRESTORM'S FLAG SHIP MODELS

4–5 **HDBASET LITE MATRIX SOLUTIONS**
TRANSMISSION OF FULL, UNCOMPRESSED HD 1080P VIDEO AND AUDIO

6–7 **HDBASET BUILDING BLOCKS**
THE "AV BUILDING MATERIALS" TO CREATE AN ARRAY OF SYSTEM CONFIGURATIONS

8–9 **ENADO CONTROL SYSTEMS**
INNOVATIVE SOLUTION FOR CONTROLLING AV SOURCES

10 **PRO MATRIX SWITCHERS**
STABLE DISTRIBUTION OVER LONG CABLE RUNS

11 **HD OVER FIBRE SOLUTIONS**
DELIVERING HIGH SPEC HD VIDEO AND AUDIO OVER KILOMETRES

12–13 **QI QUICK INSTALL MATRIX**
TOTAL SOLUTION FOR SINGLE-CABLE HD DISTRIBUTION AND CONTROL

14–15 **4 AND 8 WAY CAT5E/6/7 SPLITTERS**
IDEAL FOR SMALL COMMERCIAL AND MULTI-DWELLING INSTALLATIONS

16 **WYRESTORM EXPRESS**
THE IMPORTANT ACCESSORIES FOR ALL YOUR A/V INSTALLATION NEEDS

17 **HD TEST EQUIPMENT**
ALLOWING DIAGNOSIS OF AV SYSTEMS AND DIGITAL CONNECTIVITY

18–19 **HDMI SPLITTERS**
PERFECT FOR ALL SIZES OF COMMERCIAL, RETAIL, OR HOSPITALITY INSTALLATIONS

20–21 **POINT TO POINT EXTENDER SETS**
IDEAL SOLUTION FOR HIGH SPEC, AFFORDABLE, POINT-TO-POINT HD DISTRIBUTION

22 **HD SWITCHERS AND SCALERS**
PROVIDING MULTI-FORMAT PLUG AND PLAY SOLUTIONS

23 **FORMAT CONVERTERS**
THE IDEAL CHOICE FOR RETAIL AV, COMMERCIAL AND HOSPITALITY INSTALLATION

24–25 **STANDARD HD TO HD MATRIX**
WYRESTORM'S ENTRY LEVEL FULL HD MATRIX SWITCHES

26 **SERIAL DIGITAL INTERFACE SOLUTIONS**
FOR YOUR GREATER FIDELITY AND RESOLUTION NEEDS

27 **TRAINING**

28 **FAQS**

HDBASET FULL MATRIX SOLUTIONS

Visit HDBT Alliance website
http://hdbaset.org

HDBaseT – Supported by the HDBaseT Alliance, is a consumer electronic connectivity technology for long distance transmission of uncompressed high definition video, audio, 100BaseT Ethernet, control via IR and RS232 and eventually power, all via 100m (328ft) Cat5e/6/7 cable and RJ45 connectors. The HDBaseT Alliance was incorporated June 14th 2010 by founder members Samsung Electronics, LG Electronics, Sony Pictures and development company Valens.

Introducing point to point extender sets back in October 2010, followed by 4K capable matrix models in early 2011. As a company passionate about any development that advances HD distribution and control, Wyrestorm's commitment to HDBaseT technology is also evident by the addition of our new range of HDBaseT Lite classification products and accessories.

Our flagship range of Matrix switchers utilise the latest in HDBaseT 'One-Cable' technology and enables unprecedented flexibility for both residential and commercial applications. Technology that delivers HD audio and up to 4K video, two-way IR and RS232 control, plus high speed internet access all on a single Cat5e/6/7 cable, eliminating the need for additional control and video cables on installations.

16 / 16 Output Full HD Matrix Switch

Dimensions: (WxHxD):
440mm x 350mm x 390mm / 17.3" x 13.8 x 15.35"
Weight: 20kgs / 44lbs
Power Consumption: 60 Watts max
Pack space Required: 9U

Part Number: MX1616-HDBT

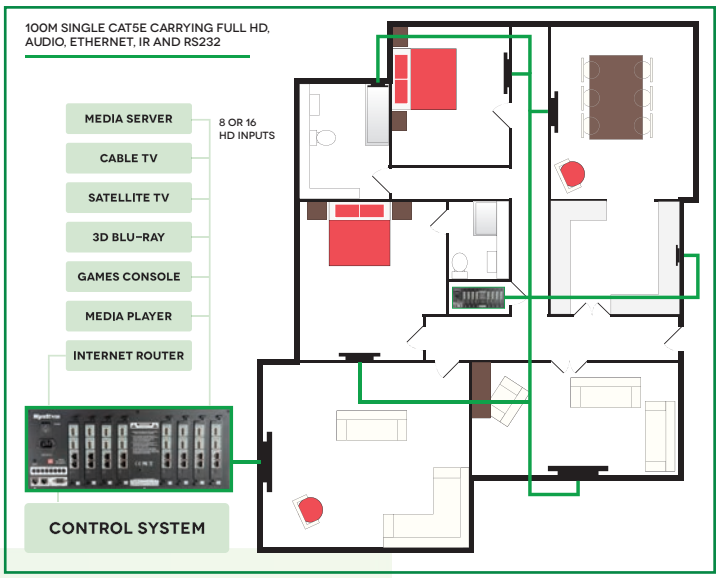
RS232 AND IP integration protocols are available with the market leading control systems such as:

Please note: Some supplied drivers use open source RS232/LAN coding and are not always part of an official integration programme.

Key Product Features

- Single cable solution including transmission of full HD audio/video, RS232, 2-Way IR and Ethernet
- Robust HDBaseT transmission technology far more stable and resistant to electrostatic interference than conventional HD distribution over UTP.
- HDMI v1.4 with full 3D compatibility with frame packing (Blu-Ray) and interlaced Stereoscopic (satellite cable broadcasts)
- Supports all CE high definition resolutions: 1080p,1080i, 720p
- 4k Resolution supported

Full Spec Sheets available at www.wyrestorm.com



8 / 16 Output Full HD Matrix Switch

Dimensions: (WxHxD):
440mm x 350mm x 390mm / 17.3” x 13.8 x 15.35”
Weight: 18kgs / 39.7lbs
Power Consumption: 60 Watts max
Pack space Required: 9U

Part Number: MX0816-HDBT

8 / 8 Output Full HD Matrix Switch

Dimensions (WxHxD):
440mm x 140mm x 280mm / 17.3” x 5.5 x 11.02”
Weight: 12kgs / 26.4lbs
Power Consumption: 35 Watts max
Pack space Required: 4U

Part Number: MX0808-HDBT

HDBaseT Single Cat5e/6/7 Display Receiver

Features:
- Cat5e/6/7 to HDMI, RS232, IR and Ethernet out
- Wide band IR receivers and power supply included
- For use with any of the HDBaseT Matrix switchers
- Typical cable runs up to 100m

Dimensions (WxHxD): 152mm x 31mm x 105mm / 5.98” x 1.22 x 4.13”
Weight: 0.88kgs / 1.94lbs

Part Number: RX-100IR-HDBT

In-wall HDBaseT Single Cat5e/6/7 Display Receiver

Features:
- Cat5e/6/7 to HDMI and IR
- Dual decora electrical box standard
- Both rear and front power connections provided
- For use with any of the HDBaseT Matrix switchers
- Typical cable runs up to 100m

Part Number: RX-100IR-HDBT-IW

RS232 AND ETHERNET NOT SUPPORTED

Full product Spec Sheets available at www.wyrestorm.com

HDBASET LITE MATRIX SOLUTIONS

Visit HDBT Alliance website
http://hdbaset.org

HDBaseT Lite shares many of the same strengths as its bigger brother in terms of distribution method, signal stability and resistance to interference, but removes the Ethernet distribution, while still allowing full HD distribution over single cable runs with discrete IR control up to 70m / 230ft, for a more affordable, yet flexible option.

Wyrestorm have included simultaneous HDMI outputs for enhanced versatility, where installations may require longer cable runs, you can integrate the 100m / 328ft full HDBaseT EX-1UTP-IR-100 extender set (also adding Ethernet and RS232 functionality to the room), or the EX-1FIB-5000 Fibre extenders (delivering audio and video up to 5KM / 3.1miles in distance).

In older properties, coax may be the only option for cable transmission. The EX-1COAX-IR-75 extenders provide an ideal solution for such applications by offering distribution of full 1080p HD video and HD audio with wide band, two way IR control over distances up to 60m/197ft.

HDBaseT Lite

8 / 8 Output Lite HD Matrix Switch

Dimensions (WxHxD):
440mm x 100mm x 340mm /17.3" x 3.9 x 13.4"
Weight: 6.7Kg/14.8lb
Power Consumption: 60 Watts (Max.)
Rack Space Required: 2U

Part Number: MX-0808-PP

MODULAR CHASSIS ALLOWS PRODUCT TO BE EASILY UPGRADABLE WITH RANGE OF INTERCHANGABLE CARDS. see page 6

Key Product Features

- 8 HDMI Inputs & 8 HDMI Outputs over Cat5e/6 (plus additional 8 duplicate HDMI ports mirrored to HDBT Outputs)
- Single cable output for all HD Video/Audio using HDBaseT platform with bi-directional IR control
- Additional control via LAN, RS232 and RS485
- Full EDID Management (Including 3D), HDCP Compliant
- Compact 2U Design with integrated PSU
- Drivers available for all main control systems
- 4k Supported at shorter cable distances.

Full Spec Sheets available at www.wyrestorm.com

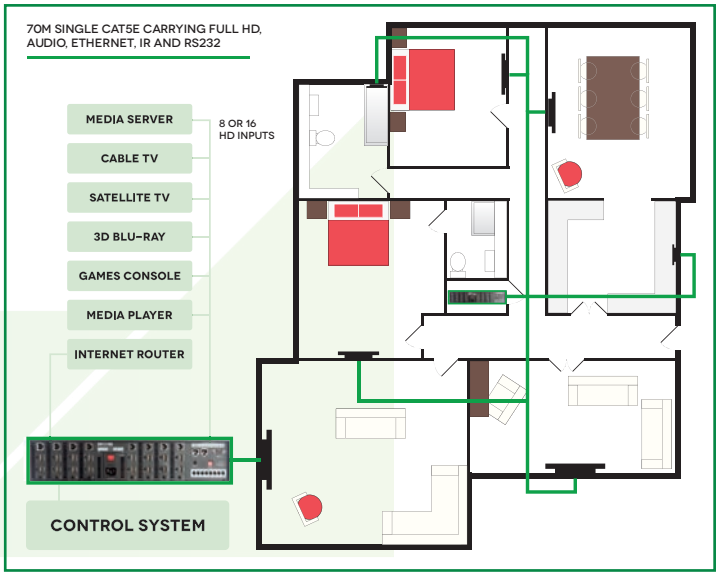
3D COMPATIBLE

HDBaseT Lite

RS232 AND IP integration protocols are available with the market leading control systems such as:

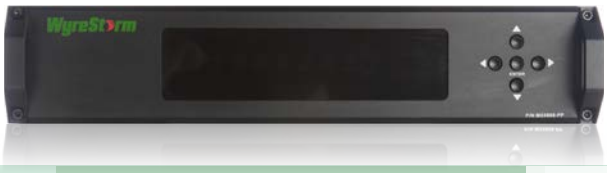
RTI AMX Control4 OPUS RedEye savant DEMOPAD enado CRESTRON BitWise ELAN

Please note: Some supplied drivers use open source RS232/LAN coding and are not always part of an official integration programme.



HDBASET LITE MATRIX SOLUTIONS

"BUILD YOUR OWN MATRIX"
COMING SOON
FOR MORE INFO VISIT:
WWW.WYRESTORM.COM



6 / 6 Output Lite HD Matrix Switch

Dimensions (WxHxD):
440mm x 100mm x 340mm /17.3" x 3.9 x 13.4"
Weight: 6.7Kg/14.8lb
Power Consumption: 70 Watts (Max.)
Rack Space Required: 2U

Part Number: MX-0606-PP

HDBaseT Lite

Available Early 2013
NEW TX CARDS

Introducing a new comprehensive range of modular transmission cards slotting into a customized Pro Plus 8x8 chassis for the ultimate in choice, specification and flexible installations alongside other models in the Pro Plus HDBT Lite matrix range.

WYRESTORM RECEIVER

4 / 4 Output Lite HD Matrix Switch

Dimensions (WxHxD):
440mm x 42mm x 168mm /17.3" x 1.6" x 6.6"
Weight: 2.0 Kg / 4.4lbs
Power Consumption: 35 Watts (max.)
Rack Space Required: 1U

Part Number: MX0404-PP

HDBaseT Lite

70m HDBT Lite Receiver

Features:
- Cat5e/6/7 to HD, RS232 and IR out
- Wide band IR receivers and power supply included
- For use with any of the HDBaseT Matrix switchers
- Typical cable runs up to 70m

Dimensions (WxHxD): 76mm x 27mm x 105mm / 2.99" x 1.06" x 4.14"
Weight: 0.35kg / 0.77lbs

Part Number: RX-70-IR-PP

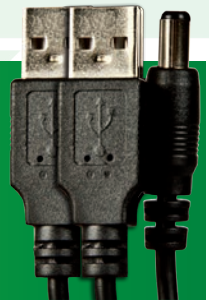
HDBaseT Lite

TWIN USB to 5V Cable Available

Developed to power extenders by connecting to devices with spare USB ports. Energy efficient. Ideal for flat panel installations where space is at a premium. Cable length 600mm

Part Number: CAB-USB-5V-70

Not recommended for use with HDBaseT models



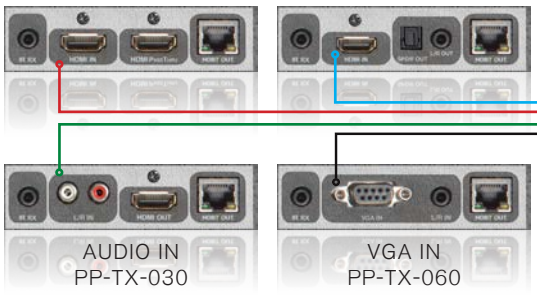
Full product Spec Sheets available at www.wyrestorm.com

HDBASET BUILDING BLOCKS

Providing the dealer with the ability to create a variety of system configurations for countless AV applications.

Wyrestorm HDBT Building Blocks are so-named as they represent a collection of intelligent products utilizing powerful HDBaseT transmission technology that can be combined in variety of configurations to create countless methods of AV solutions, all benefitting from the performance and stability of HDBaseT.

Flexible and powerful enough to create both very simple solutions and complex digital distribution systems alike, with the confidence of Wyrestorm HDBaseT as your transmission platform, the possibilities are limited only by your imagination.



NEW TX CARDS

Available Early 2013

Introducing a new comprehensive range of modular transmission cards slotting into a customized Pro Plus 8x8 chassis for the ultimate in choice, specification and flexible installations alongside other models in the Pro Plus HDBT Lite matrix range.

8 options available

- **PP-TX-010** - HDMI loop for cascading matrix models (and connection to Enado Video Encoder)
- **PP-TX-020** - Stereo Line Level output (with digital output)
- **PP-TX-030** - Stereo Line Level input (for audio only sources)
- **PP-TX-060** - VGA Input Card
- **PP-TX-070** - HDMI input Only (source input only)
- **PP-TX-080** - RS232 Input Card
- **PP-TX-BLK** - TX Card Blanking Plate
- **8x8 HDBT Lite Empty Chassis - PP-0008-HDBT**

Supported Resulutions:
800x600, 1024x768, 1280x800, 1280x1024, 1400x900, 1400x1050, 1600x1200, 1920x1080 & 1920x1200

Compatible with WS devices including:
MX0606-PP and **MX0808-PP**

New Matrix WEB CONFIGURATION TOOL coming soon...

WORLDS FIRST HDBT DIGITAL AMPLIFIER

Wyrestorm proudly introduces a world first in HDBaseT Technology: the new HDBT class D digital amplifier with HDBT receiver. This highly versatile digital audio device is capable of extracting high quality Hi-Fi audio from HD signals, HDBT reception and passthrough with local HDMI breakout and receiving HDBT transmissions with local HDMI break out. Low voltage and cascadable up to 7 times within a single zone, it is controlled via a remote, RS232 or Wyrestorm's Enado user interface released in early 2013.

Part Number: AMP-001-010

ARC & LOCAL AUDIO INPUT FEATURE

- Can be cascaded up to 7 times within a single zone via 70m of single Cat5e (and mixed with other HDBT WS devices)
- Stereo audio is transmitted with full HD Video, RS232 & IR from your HDBT Matrix or HDBT Transmitting device
- HDMI for connection of local displays
- Sub woofer pre-out
- Control via Remote or RS232 and Enado UI
- Low Voltage for ease of installation
- Can be installed as centralized amplifier in line with speakers or as a local in-room device connected via single Cat5e

Compatible with WS devices including:
MX0404/0606/0808-PP and **EX-1UTP-IR-70/100,**

Available Early 2013

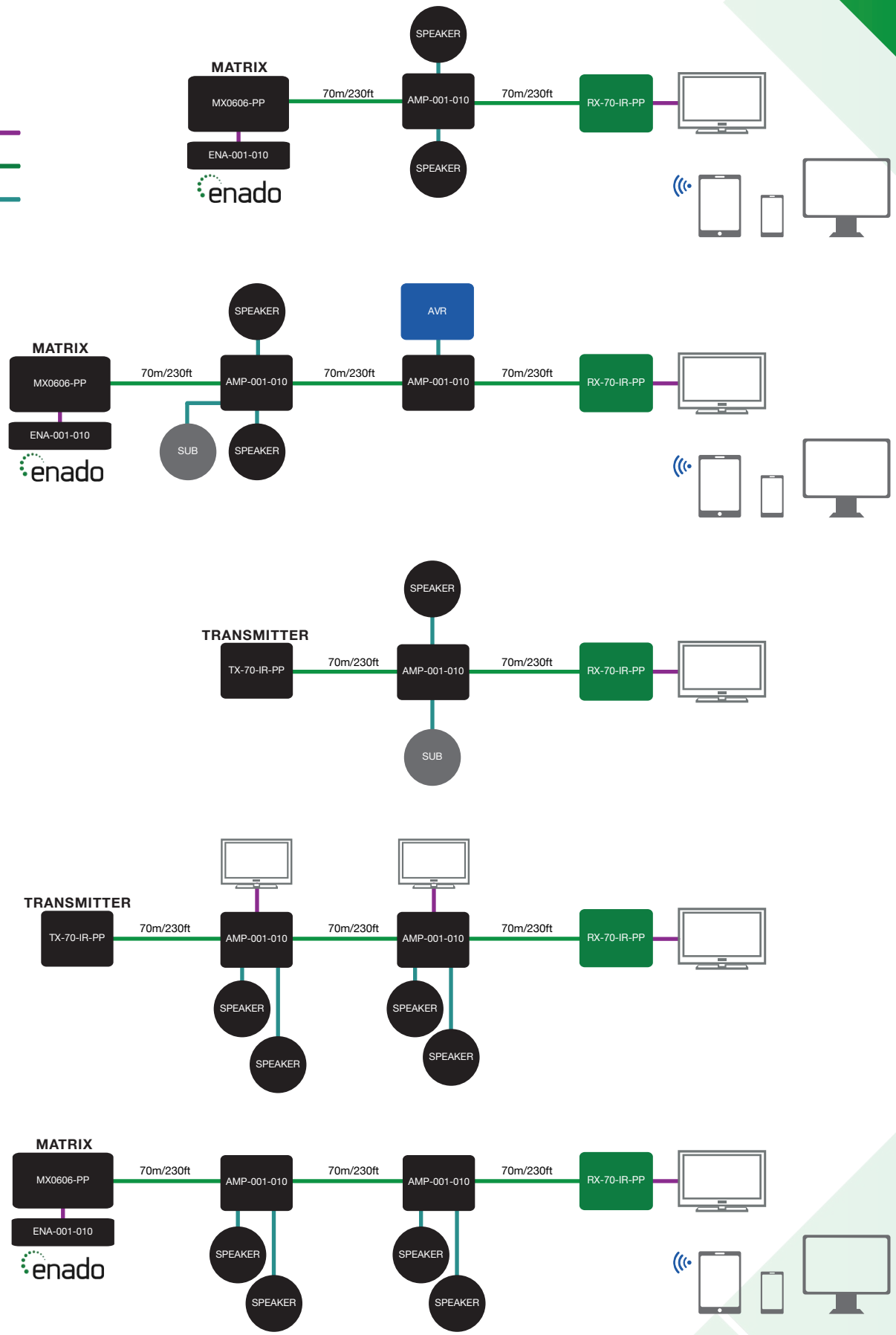
HDBT™ HDBaseT Lite 3D COMPATIBLE

KEY:

HDMI

CAT5E

SPEAKER CABLE



ENADO
CONTROL SYSTEMS

The Wyrestorm name is synonymous with innovative yet intuitive, high quality HD distribution and control solutions at the very forefront of digital technology.

We have applied that same approach to the control of Wyrestorm matrices and AV devices with the development of the Enado control system. As smart as it is simple to use, Enado is a powerful multi-platform hardware and non-App software solution that combines a central control unit and stylish user interface that enables the control of AV sources between connected displays using any web-enabled browser device such as a desktop PC, laptop, tablet, Smart TV, games consoles including Apple Mac, iPad, iPhone and iPod Touch - indeed, virtually anything with web capabilities.

Furthermore, unlike some AV control systems, installation is similarly straightforward, with a specially created “no-programming” browser-based configuration tool that allows the extensive device library to be augmented with the built-in device editor and learner with support for a variety of popular content formats.

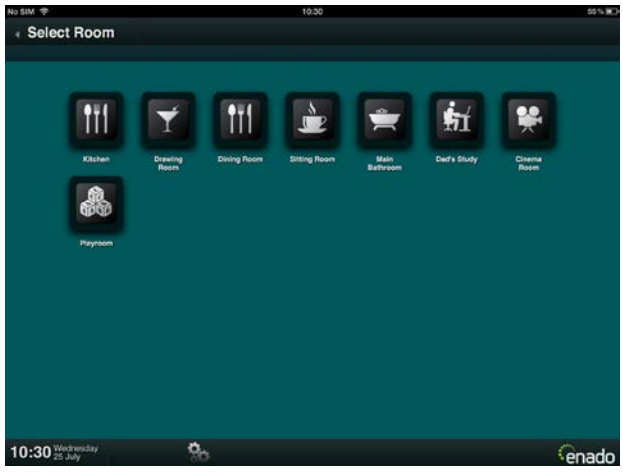
Enado brings a new world of control to your fingertips by replacing multiple remote controls with a seamless and elegant interface that can be customized room by room and source by source for whole-house AV control at the touch of a button.

SYSTEM

With each source device connected to the central Enado controller, any room can choose any source — that means: less clutter, fewer replicated devices, less cost and less complexity. And no messy cables, too.

When integrated alongside a Wyrestorm HD matrix solution, Enado controls the highest quality viewing and best listening enjoyment around the home in superb high definition and 3D.

Wyrestorm network extenders offer even more flexibility by allowing devices and displays that are not co-located with the Enado controller to be connected across a local network.



AVAILABLE 2ND QUARTER 2013

Screen control feedback of room and source selected.

Enado simplifies control of TV, Cinema, Music, Blu Ray/DVD, security cameras, Internet Media streams and distribution to multiple rooms

Preview of current selected output source (* Option with additional video input unit)

Date and time recognition with 24 hour clock

Sources can be configured specifically for the particular home and the preferences of the occupants

CONTROL

Enado is state-of-the-art, smart control. All entertainment sources, security cameras, news, weather, and more, are available on all display devices through the unified user interface.

With Enado, any compatible browser on any device becomes a user control interface. Whether operated inside or outside the building, on a large-screen Smart-TV or on a small-screen smartphone, the same extensive level of control is the available.

As there's no app to worry about, the system won't suddenly stop working because of an incompatible update.

CONFIGURATION

The Enado configuration tool provides installers with an intuitive, simple, cross-platform solution that requires no complex programming — the perfect system for anyone looking for a straightforward AV control solution.

Tablet-friendly, browser-based editing means configuration can be done from anywhere on any device and configuration changes are available instantly on all user interfaces.
For a bespoke touch, the user interface can be customised with personal backgrounds and icons.

Our comprehensive IR device database ensures easy and fast configuration. New IR, RS232 and IP-based devices can also be created within the tool, which supports a number of popular formats and IR learning.

PRO
MATRIX SOLUTIONS

The Wyrestorm PRO range of matrix switchers allow any of their HDMI/DVI inputs to be routed simultaneously over distance to any combination of connected display outputs via UTP cable, regardless of HDCP source encryption.

Models within the PRO range offer a choice of 4 or 8 inputs to 2 or 8 outputs to suit the requirements of the installation and budget. Each model features discrete, two-way full remote control via infrared, RS232 and LAN, with open source RS232 drivers available for third party control systems.

MX-PRO matrices also equalise and amplify transmission signals to ensure stable distribution over long cable runs without loss in quality, whilst eliminating the need for additional control and video cables on installation.

All of which adds up to the perfect combination of flexibility and reliability together with an ease of use that provides smart, cost effective solutions where HD transmission of multiple sources to multiple displays is required, whether in a residential or commercial setting

Full product Spec Sheets
available at www.wyrestorm.com

8 / 8 Full HD PRO Matrix

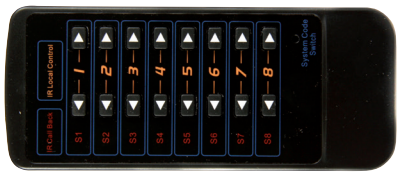
Dimensions: (WxHxD):
440mm x 140mm x 280mm / 17.3” x 5.5” x 11.02”
Weight: 20kgs / 44lbs
Power Consumption: 35 Watts (Max.)
Rack space Required: 4U

Part Number: MX-0808-PRO

4 / 2 Full HD PRO Matrix

Dimensions (WxHxD):
440mm x 42mm x 202mm / 17.3” x 1.7” x 7.9”
Weight: 2kgs / 4.4lbs
Power Consumption: 10 Watts (Max.)
Rack space Required: 1U

Part Number: MX-0402-PRO



Additional Remote Controls Available

4 X 2 REMOTE CONTROL
Part Number: RM-0402

8 X 8 REMOTE CONTROL
Part Number: RM-0808

Dual Cat5e/6/7 Display Receiver

Features:

- Cat5e/6/7 to HD, Wide Band IR receiver
- Power supply and IR receiver supplied
- For use with all Pro Matrix and Cat5e/6/7 splitters
- Typical cable runs up to 50m

Dimensions (WxHxD):
60mm x 23mm x 115mm / 2.3” x 0.9” x 4.5”

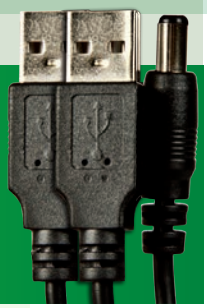
Part Number: RX-50IR-PRO

TWIN USB to 5V Cable Available

Developed to power extenders by connecting to devices with spare USB ports. Energy efficient. Ideal for flat panel installations where space is at a premium. Cable length 600mm

Part Number: CAB-USB-5V-70

Not recommended for use with HDBaseT models



HD OVER FIBRE SOLUTIONS

The Wyrestorm EX-1FIB-5000 is a point to point extender set capable of delivering high spec HD video and audio distribution over distances up to 5km (3.1miles) using single mode optical fibre as a transmission medium.

Designed for projects that require stable HD video @60Hz and HD audio distributed over great distances, the EX-1FIB-5000 & EX-MMFIB-5000 are an excellent choice for large scale installations such as airports, shopping centres, factories, universities, or indeed anywhere that necessitates the reliable transmission of clear, uncompressed video/audio to single or multiple displays over distances that makes conventional UTP distribution unfeasible.

COMING SOON

24 / 24 Fibre Matrix

Dimensions: (WxHxD):
483mm x 88mm x 248mm / 19.1” x 3.4” x 9.7”
Weight: 3.8kgs / 8.3lbs
Power Consumption: 35 Watts max
Rack space Required: 4U

Part Number: MX-2424-OPT

Multi-Mode Fibre Extenders

A multi-mode optical fibre extender set capable of delivering full HD 1080p video @60Hz, HD audio, RS232 and two-way IR control of source & display from either location over distances up to 5km/3.1miles.

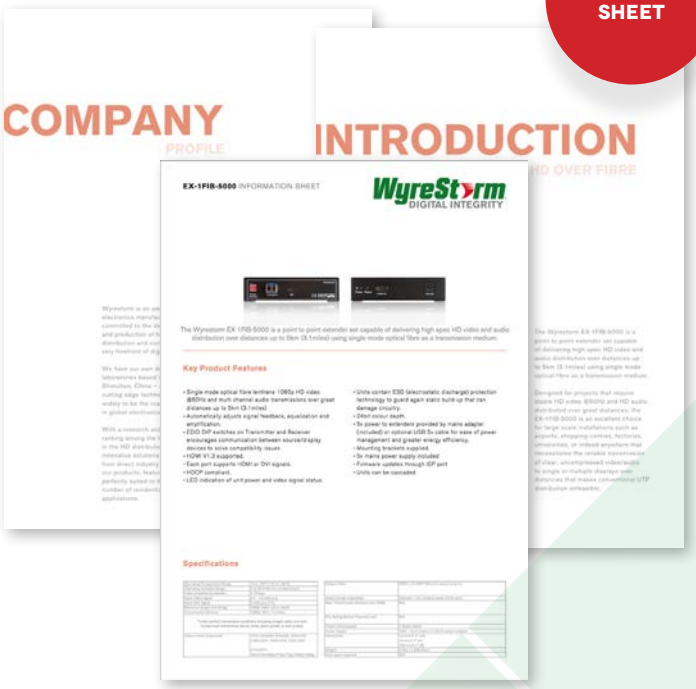
Part Number: EX-MMFIB-5000

Single-Mode Fibre Extenders

Dimensions (WxHxD):
152mm x 31mm x 105mm / 5.9” x 1.2” x 4.1”
Weight: 0.9Kg / 1.98lb
Power Consumption: 5 Watts (Max.)
Single mode/Single lenght fibre LC termination

Part Number: EX-1FIB-5000

SPECIFICATION SHEET



Fibre Performance Guide as extender set only

50m	100m	200m	300m	400m	500m	600m	700m	800m	900m	1km	2km	3km	4km	5km	
HD over Fibre EX-1FIB-5000							1080p								
164ft	328ft	656ft	984ft	1,312ft	1,640ft	1,969ft	2,297ft	2,625ft	2,953ft	3,281ft	1.2Mi	1.8Mi	2.5Mi	3 Mi	

* When linked with Matirix = 2km transmition

QI QUICK INSTALL MATRIX

The Wyrestorm 4x4 Quick-Install pack is a system of HD switching and extension that comprises of a 4 Input/4 Output HD Matrix together with 4 display receivers that together provide a total solution for single-cable HD Distribution and Control over distances of up to 40m (131ft) in residential or small commercial settings.

The MX0404-QI pack enables any four HD devices to be viewed independently and simultaneously on ANY four displays, with full 3D support, over distances of up to 40m (131ft), with full control of the connected sources as well as output from the matrix from display locations via discrete, wide band IR control of source devices or RS232.

The system itself is entirely cabled on single Cat5e/6/7 UTP runs to each display point throughout the location for the quickest, most convenient and cost effective means of transmitting and controlling full, uncompressed 1080p HD video and HD audio we could think of to make sure your time on-site is as productive (and brief) as possible.

4 / 4 Output Quick Install Matrix

Dimensions (WxHxD):
440mm x 100mm x 235mm /17.3" x 2.05" x 9.25"
Weight: 2 Kg/4.4lbs
Power Consumption: 60 Watts (Max.)
Rack Space Required: 1U

Part Number: MX-0404-QI

RS232 AND IP integration protocols are available with the market leading control systems such as:

Key Product Features

- Quick and easy installation – set up in seconds straight out of the box.
- Simplified ports - Input: HDMI – Output: integrated RJ45 connectors for a single Cat5e/6/7 UTP cable to each display point for ease of installation.
- Supports all high definition resolutions up to and including 1080p and standard video formats.
- Fully 3D compatible – Frame packing 3D (Blu-ray) and interlaced stereoscopic 3D Fully compatible for integration with market leading control systems.
- Supports 24Bit Colour depth

Full Spec Sheets available at www.wyrestorm.com

WYRESTORM QI RECEIVERS

ALL FOUR RECEIVERS INCLUDED IN PACK

40m single cable receiver with IR source control and EQ EDID and Distance adjustment. See website for full details.

In the Box

MX-0404-QI

- MX0404-QI main unit
- Printed instruction manual
- Flash USB stick containing PC software and digital copy of instruction manual. Digital copy of manual downloadable from the main product page
- Matrix mounting brackets
- 1 x 12VDC power supply
- 1 x IR Extension cable (IR RX)
- 4 x IR TX Emitters (small for Input source)
- 1 x MX0404-QI remote control incl. battery (size/type: CR2025 3V)

RX-1UTP-IR-40

- 4 x RX-1UTP-IR-40 Display Receivers
- 4 x Receiver mounting brackets
- 4 x 5VDC power supply
- 4 x IR RX Receivers (larger for HD display)
- 4 x USB 5V Power lead

HD DISTRIBUTION AND CONTROL MATRIX WITH DISPLAY RECEIVERS.

4 INPUTS. 4 OUTPUTS. 40 METRES. SIMULTANEOUS.

TIME IS MONEY.

We all know it, especially when it comes to your HD installation projects. Time saved in choosing the right combination of HD equipment you know will work is just as important as getting it all up and running as quickly and efficiently as possible so you can move onto the next job.

We know that because you told us. And we listened. That's why we developed the WyreStorm MX0404-QI Matrix pack – that's QI as in 'Quick Install', which is exactly what you can expect.

Specifically developed and manufactured by an HDMI Adopter Organisation to meet the needs of the installer, the MX0404-QI is a dedicated system of HD distribution and control, combining a 4x4 Matrix and four single cable receivers – all of which are designed to work seamlessly together for complete compatibility and full management of handshakes, screen resolutions and HD signal distribution to each display point, whether in a residential or commercial environment.

The MX0404-QI pack enables ANY four HD devices to be viewed independently and simultaneously on ANY four displays, with full 3D support and constant HDCP over distances of up to 40m, with one-way IR control of the connected source as well as output from the matrix.

The system itself is entirely cabled on single Cat5e/6/7 UTP runs to each display point throughout the location for the quickest, most convenient and cost effective solution we could think of to make sure your time on-site is as productive (and brief) as possible.

Time is money. With the WyreStorm MX0404-QI in your set up, you'll have a little more of both.

WyreStorm

HD OVER UTP SPLITTERS

These cost effective splitters are ideal for small commercial and multi-dwelling installations. The SP-UTP-0104 and SP-UTP-0108 offer single HD source distribution, providing uncompressed true HD distribution over long distances using Cat5e/6/7 cabling, with the ability to control the source from display locations.

1 Input / 4 Outputs

Features
- Single HDMI input
- Four integrated dual Cat5e/6/7 outputs for connection to your specified display adaptor
- IR emitter input for source control from display location
- EDID management
- Can be run in single UTP mode (audio and video only **IR not supported in this mode**)

Dimensions (WxHxD):
175mm x 40mm x 115mm / 6.9” x 1.6” x 4.5”
Weight: 0.4kgs / 0.9lbs
Power Consumption: 8 Watts

Part Number: SP-UTP0104

1 Input / 8 Outputs

Features
- Single HDMI input
- Seven integrated dual Cat5e/6/7outputs for connection to your specified display adaptor
- One standard HDMI Output for local display
- IR emitter input for source control from display location
- EDID management
- Can be run in single UTP mode (audio and video only **IR not supported in this mode**)

Dimensions (WxHxD):
268mm x 43mm x 153mm / 10.5” x 1.7” x 6”
Weight: 1.0kgs / 2.2lbs
Power Consumption: 15 Watts

Part Number: SP-UTP0108

Dual Cat5e/6/7 Display Receiver

Features:
- Cat5e/6/7 to HD, Wide Band IR receiver
- Power supply and IR receiver supplied
- For use with all Pro Matrix and Cat5e/6/7 splitters
- Typical cable runs up to 50m

Dimensions (WxHxD):
60mm x 23mm x 115mm / 2.3” x 0.9” x 4.5”

Part Number: RX-50IR-PRO
or
RX-50-PRO (single UTP mode)

WYRESTORM RECEIVER

Full product Spec Sheets available at www.wyrestorm.com

USB to 5V Cable Available

Developed to enable powering of receivers via TV USB output. Ideal for flat panel TV installations where space is at a premium. Cable lenght 600mm.

Part Number: CAB-USB-5V

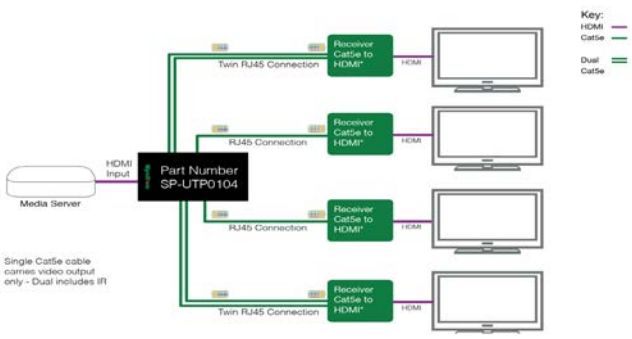
Cannot be used with HDBaseT models

THE WYRESTORM HD OVER UTP SPLITTER RANGE

HD OVER UTP SPLITTERS

Wyrestorm's 4 and 8 Way Cat5e/6/7 Splitters are cost effective solutions for the replication and distribution of HD transmissions. Ideal for small commercial and multi-dwelling installations.

Wyrestorm SP-UTP-0104 and SP-UTP-0108 both offer single HD source distribution, providing uncompressed true HD distribution over long distances using Cat5e/6/7 cabling, with the ability to control the source from display locations.



WyreStorm Express

Wyrestorm Express has been developed as a plug and play range for high definition connectivity in the home, with 3D compatible devices.

The range includes simple HD switching, distribution and control. Ideal for integrating Satellite & cable boxes, together with the latest gaming machines with flat panel screens.

PRODUCT RANGE

EXTENDER

RIGHT ANGLED HDMI COUPLER

IN-LINE HDMI COUPLER

HDMI CABLES

HDMI SWITCHERS

SPLITTER

HDMI HIGH DEFINITION MULTIMEDIA INTERFACE

3D COMPATIBLE

A COMPLETE LINE OF **HDMI SOLUTIONS**

NEW WYRESTORM TEST KIT

DIAGNOSING YOUR A/V PROBLEMS WITH EASE

POWERED BY 5V BATTERIES. NO NEED FOR ON-SITE MAINS TO TEST CABLING INFRASTRUCTURE

The Wyrestorm test equipment has been developed to assist commercial and residential integrators with the ability to diagnose AV systems and digital connectivity on installations.

These products are particularly useful for assessing existing cabling prior to installation and we highly recommend them both as a preparatory and problem solving measure in your projects for the greatest chance of efficient and successful installations.

Test Monitor Key Features:

- **Full 1080p HD 7” screen**
- **Physical resolution: 1920x1080p**
- **Max input resolution: 1920x1200/60Hz**
- **Colours: 262.1k**
- **HDMI input support HDMI1.3b**

Pattern Generator Key Features:

- 32 preset patterns
- Supports 24 preset resolutions
- 1 x RS232 interface (for PC)
- HDCP and colour depth adjustment
- 1 x HDMI Output

Kit Includes:

- Demo Case
- Pattern Generator
- Remote Control
- IR Receiver cable
- AC Power cords
- Two 5V Power supply
- USB Power supply
- Incline HDMI extender
- Test Monitor

WyreStorm

HDMI SPLITTERS

The Wyrestorm Standard range of HD Splitters are professional grade single and dual input to multiple output splitters that provide distribution and replication of one or two full HD sources to multiple duplicate HD displays over HDMI cables.

The fact our R&D team work on all products across our entire range means all Wyrestorm products offer complete intercompatibility - thus it is possible to mix and match HD Splitters with any of our extender sets to cover larger installations over greater distances or the inclusion of additional displays.

As such, the Wyrestorm range of HD splitters can be combined with Coax, Fibre HDBaseT or HDBaseT Lite extenders for even greater flexibility over your content - perfect for commercial, retail, or hospitality installations where the distribution of limited HD sources to multiple screens of all sizes is required.

1 x 2 HD Splitter

Features
- Professional grade
- Full 1080p support
- HDCP compliant
- 3D support

Dimensions (WxHxD):
88mm x 28mm x 68mm / 3.4” x 1.1” x 2.7”
Weight: 0.25kgs / 0.5lbs
Power Consumption: 1.5 Watts (max)

Part Number: SP-0102

2 x 8 HD Splitter

Features:
- Professional grade
- Full 1080p support
- HDCP compliant
- 3D support

Dimensions (WxHxD):
450mm x 92mm x 231mm / 17.7” x 3.6” x 9”

Part Number: SP-0208

1 x 12 HD Splitter

Features:
- Professional grade
- Full 1080p support
- HDCP compliant
- 3D support

Dimensions (WxHxD):
450mm x 92mm x 231mm / 17.7” x 3.6” x 9”

Part Number: SP-0112

1 x 8 HD Splitter

Features:
- Professional grade
- Full 1080p support
- HDCP compliant
- 3D support

Dimensions (WxHxD):
450mm x 92mm x 231mm / 17.7” x 3.6” x 9”

Part Number: SP-0108

1 x 4 HD Splitter

Features:
- Professional grade
- Full 1080p support
- HDCP compliant
- 3D support
- Mounting brackets included
- Includes dip switches for EDID adjustment

Dimensions (WxHxD):
450mm x 92mm x 231mm / 17.7” x 3.6” x 9”

Part Number: SP-0104

WYRESTORM HDMI SPLITTERS

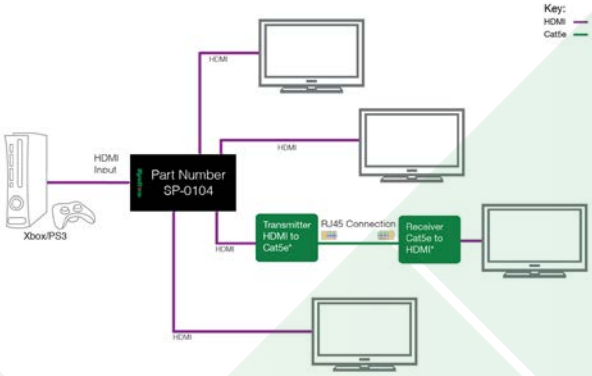
SPLITTING A/V AROUND YOUR BUSINESS

HDMI TO HDMI SPLITTERS

The Wyrestorm Standard range of HD Splitters are professional grade single and dual input to multiple output splitters that provide distribution and replication of one or two full HD sources to multiple duplicate HD displays over HDMI or Cat5e/6 cable.

The fact our R&D team work on all products across our entire range means all Wyrestorm products offer complete intercompatibility - thus it is possible to mix and match HD Splitters with any of our extender sets to cover larger installations over greater distances or containing more screens.

As such, the Wyrestorm range of HD splitters can be combined with Coax, Fibre HDBaseT or HDBaseT Lite extenders for even greater flexibility over your content - perfect for small to large commercial, retail, or hospitality installations where the distribution of limited HD sources to multiple screens is required.



WyreStorm

HDMI EXTENDER SETS

Wyrestorm extender sets offer the ideal solution for high spec point-to-point HD distribution with full 3D support using a variety of distribution methods to suit any project and budget for excellent flexibility and control over virtually any distance.

With full intercompatibility between all products across the entire Wyrestorm range, our extenders are the last word in versatility, allowing distribution to be tailored to the installation rather than limited by it.

Our HDBaseT and HDBaseT Lite classification extenders enable full HD distribution including RS232 connectivity and discrete wide-band, two-way IR control of devices over 100m/328ft and 70m/230ft respectively, with Ethernet pass-through available on full HDBaseT models.

For installations where distribution over much greater distance is a prerequisite, our HD over Fibre solutions are capable of full 1080p @60Hz video and HD audio transmissions on runs of up to 5km/3.1miles using single mode optical fibre.

60m Coax 2 way IR

Features:
- 60m single coax transmission
- 720p/1080i/1080p resolution
- IR source control via IR receiver (2 Way)
- IR accessories and power supplies included
- Full 3D support

Dimensions (WxHxD):
152mm x 31mm x 105mm / 5.9” x 1.2” x 4.1”

Part Number: EX-1COAX-IR-75

Coax Cable Performance Guide

5m 10m 15m 20m 25m 30m 35m 40m 45m 50m 60m
Single Coax Point to Point HD Extenders with IR
EX-1COAX-IR-75 1080p
16ft 32ft 49ft 65ft 82ft 98ft 115ft 131ft 147ft 164ft 197ft
1080p 1080i

70m 1UTP IR & RS232

Features:
- Supports up to 36bit colour depth
- Full 3D support
- Two-way IR control
- RS232 Control
- Power available via USB to 5v cable

Dimensions (WxHxD):
76mm x 27mm x 105mm / 2.99” x 1.06” x 4.14”

Part Number: EX-1UTP-IR-70

Cat5e Cable Performance Guide

5m 10m 15m 20m 25m 30m 35m 40m 45m 50m 60m 70m
Single Cable HDBaseT Lite Extender Set
EX-1UTP-IR-70 1080p
16ft 32ft 49ft 65ft 82ft 98ft 115ft 131ft 147ft 164ft 197ft 230ft

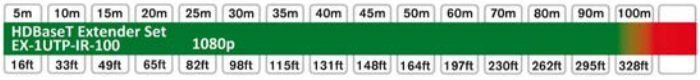
100m HDBaseT

Features:
- Supports up to 48bit colour depth
- Full 3D support
- Two-way IR control
- RS232 Control
- Up to 100m single UTP transmission

Dimensions (WxHxD):
152mm x 31mm x 105mm / 5.9” x 1.2” x 4.1”

Part Number: EX-1UTP-IR-100

Cat5e Cable Performance Guide



40m 1UTP with IR

Features:
- Supports up to 24bit colour depth
- Full 3D support
- One-way IR control
- Power available via USB to 5v cable
- Up to 40m single UTP transmission

Dimensions (WxHxD):
60mm x 115mm x 23mm / 2.4” x 4.5” x 0.9”

Part Number: EX-1UTP-IR-40

HDBaseT Lite

Cat5e Cable Performance Guide

5m 10m 15m 20m 25m 30m 35m 40m
Single Cat5e/6/7 Extender Set with IR
EX-1UTP-IR-40 1080p
16ft 32ft 49ft 65ft 82ft 98ft 115ft 131ft
1080p 1080i

For more conventional HD distribution, our dual Cat5e/6 extenders also offer discrete bi-directional IR from source and display locations over distances of 50m/164ft or 200m/656ft for larger commercial applications.

Alternatively, for older, retrofit installations utilizing existing cabling, the Wyrestorm Coax extender set offer 1080p HD with wide-band, two-way IR control over 60m through a single Coax cable.

Full product Spec Sheets available at www.wyrestorm.com

ARC & LOCAL AUDIO INPUT FEATURE

50m 2UTP 2 way IR

Features:
- Supports up to 24bit colour depth
- Full 3D support
- Two-way IR control
- Power available via USB to 5v cable
- Up to 50m twin UTP transmission

Dimensions (WxHxD):
60mm x 23mm x 115mm / 2.3” x 0.9” x 4.5”

Part Number: EX-2UTP-IR-50

WORLDS FIRST HDBT DIGITAL AMPLIFIER

Wyrestorm proudly introduces a world first in HDBaseT Technology: the new HDBT class D digital amplifier with HDBT receiver. This highly versatile digital audio device is capable of extracting high quality Hi-Fi audio from HD signals, HDBT reception and passthrough with local HDMI breakout and receiving HDBT transmissions with local HDMI break out. Low voltage and cascadable up to 7 times within a single zone, it is controlled via a remote, RS232 or Wyrestorm’s Enado user interface released in early 2013.

Part Number: AMP-001-010

Cat5e Cable Performance Guide
5m 10m 15m 20m 25m 30m 35m 40m 45m 50m
Dual Cat5e/6/7 Point to Point HD Extenders
EX-2UTP-IR-50 1080p
16ft 32ft 49ft 65ft 82ft 98ft 114ft 131ft 147ft 164ft
1080p 1080i

200m 2UTP 2 way IR

Features:
- Supports up to 24bit colour depth
- Two-way IR control
- RS232 Control
- Up to 200m. Will run on single cable (video only, no audio or control)

Dimensions (WxHxD):
152mm x 125mm x 31mm / 5.9” x 4” x 1.2”

Part Number: EX-2UTP-IR-200

USB to 5V Cable Available

Developed to enable powering of receivers via TV USB output. Ideal for flat panel TV installations where space is at a premium. Cable lenght 600mm.

Part Number: CAB-USB-5V

Cannot be used with HDBaseT models

Cat5e Cable Performance Guide
5m 10m 15m 20m 25m 30m 35m 40m 45m 50m 60m 70m 80m 90m 100m 120m 140m 160m 180m 200m
Dual/Single Cable Super Extender Set with IR
EX-2UTP-IR-200 1080p
16ft 33ft 49ft 65ft 82ft 98ft 115ft 131ft 148ft 164ft 197ft 230ft 262ft 295ft 328ft 394ft 459ft 524ft 590ft 656ft

SWITCHERS/ SCALERS

Retrofit installations can be complex and difficult to manage due to customer requirements for multiple devices connected via single HDMI, with numerous formats and connections to be catered for.

Wyrestorm switchers and scalers overcome that problem by providing multi-format plug and play solutions to get you connected quickly and easily.

Whatever the project requirements, if multiple formats, devices and connectors are an issue, Wyrestorm Switcher and Scaler products can provide efficient and cost-effective remedies for the perfect “get of of jail” installation solution.

11:2 Multi-Function Switcher and Scaler

Dimensions: (WxHxD):
438mm x 40mm x 190mm / 17.2” x 1.6” x 7.4”
Weight: 2.4kgs / 5.3lbs
Power Consumption: 10 Watts max
Rack space Required: 1U

Part Number: SW-1102

Key Product Features

Features:
- Supports high definition resolutions 1080p, 1080i, 720p and standard video formats
- Scales to 720p or 1080p
- Can bypass scaling and output as source
- 10-bit triple-ADC for RGB/YPbPr
- Dual switching option: IR control with remote handset and manual front panel control
- Additional Remote control function with RS232 connectivity

8:1 Switcher / De-interlacer

Features:
- Supports high definition resolutions 1080p, 1080i, 720p and standard video formats
- Full 3D Support
- No image or colour distortion

Dimensions (WxHxD):
196mm x 70mm x 35mm / 7.7” x 2.7” x 1.4”

Part Number: SW-0801

4:1 Switcher and Scaler

Features:
- Supports high definition resolutions 1080p, 1080i, 720p and standard video formats
- Scales to 720p or 1080p
- Full 3D Support
- Optical and Coaxial SPDIF OUTPUT

Dimensions (WxHxD):
95mm x 30mm x 280mm / 3.8” x 1.2” x 11”

Part Number: SW-0401

FORMAT CONVERTERS

Technology evolves quickly, especially when it comes to digital High Definition, devices and displays that were state of the art just a matter of years ago may now be incompatible with many of today's digital products.

To provide solutions to integrate older analogue AV sources into today's newer screens, or feed into Matrix systems, we have a range of converters and upscalers to ensure that, whatever the format, you'll be outputting digital HDMI.

Wyrestorm format converters are designed for simple installation whilst ensuring the compact design and robust construction provide trouble free operation.

Component to HDMI

Features:
- High performance analogue to digital HDMI converters
- Upscaling standard definition formats to single cable HD Video and Audio at 720p
- HDCP compliant
- Compact design

Dimensions (WxHxD):
89mm x 29mm x 68mm / 3.5" x 1.1" x 2.7"

Part Number: CON-YUV-HD

Composite / RGB Scart to HDMI

Features:
- High performance analogue to digital HDMI converters
- Upscaling standard definition formats to single cable HD Video and Audio at 720p
- HDCP compliant
- Compact design

Dimensions (WxHxD):
140mm x 100mm x 30mm / 5.5" x 3.9" x 1.1"

Part Number: CON-SCT-HD
Also available: CON-CBS-HD

VGA with Audio to HDMI

Features:
- High performance analogue to digital HDMI converters
- Upscaling standard definition formats to single cable HD Video and Audio at 720p
- HDCP compliant
- Compact design

Dimensions (WxHxD):
89mm x 29mm x 68mm / 3.5" x 1.1" x 2.7"

Part Number: CON-VGA-HD

DVI to HDMI With Audio In

Features:
- High performance analogue to digital HDMI converters
- Upscaling standard definition formats to single cable HD Video and Audio at 720p
- HDCP compliant
- Compact design

Dimensions (WxHxD):
140mm x 100mm x 30mm / 5.5" x 3.9" x 1.1"

Part Number: CON-DVI-HD
Also available: CON-HD-DVI

STANDARD
HD TO HD MATRIX

As the demand for playback of multiple High Definition content increases the Wyrestorm compact matrices provide a simple plug and play solution for HDMI to HDMI matrix switching.

The Wyrestorm compact matrix models are professional grade matrices equipped with HDMI inputs and HDMI outputs in both 4 by 2 and 4 by 4 variants. With 3D support, IR control and EDID Management.

Whilst small in size, the features available make these matrices ideal for small residential, retail AV, commercial and Hospitality installations – especially where space is at a premium.

4 Inputs / 2 Outputs

Features
- 2 output model via standard HDMI outs
- Fully compatible with 1080p HD video and HD multichannel Audio
- Remote control, IR accessories and mounting brackets included
- HDCP compliant
- HDMI 1.3V

Dimensions (WxHxD):
204mm x 29mm x 95mm / 8.0” x 1.1” x 3.7”
Weight: 0.45kg / 1lbs
Power Consumption: 10 Watts Max

Part Number: MX-0402-STD

4 Inputs / 4 Outputs

Features
- 4 output model via standard HDMI outs
- Fully compatible with 1080p HD video and HD multichannel Audio
- Remote control, IR accessories and mounting brackets included
- HDCP compliant
- HDMI 1.3V

Dimensions (WxHxD):
290mm x 26mm x 100mm / 11.04” x 1.0” x 3.9”
Weight: 0.84kgs / 1.8lbs
Power Consumption: 12 Watts

Part Number: MX-0404-STD

Rack-mounted 4x4 HDM with RS232 Control

Features
- 4 HDMI inputs with EDID management feature
- 4 HDMI outputs
- Constant HDCP
- Key locking to avoid accidental operation
- Special fixing nuts for HDMI cable
- 19” standard, 1U size.
- Supplied with 19” rack ears
- Matrix remote and power supply provided

Dimensions (WxHxD):
440mm x 42mm x 202mm / 17.3” x 1.7” x 7.9”
Weight: 2.3kgs / 5lbs
Power Consumption: 22 Watts

Part Number: MX-0404-STDRS232

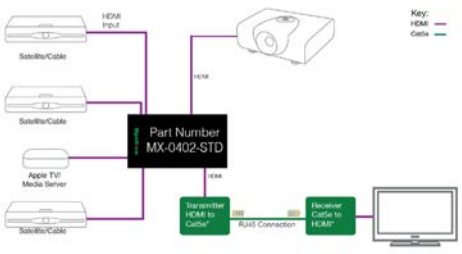
Full product Spec Sheets available at www.wyrestorm.com

STANDARD HD TO HD MATRIX

SOUND VISION INSTALL SVI TRADE GOLD AWARD WINNER 2012

SOUND VISION INSTALL SVI TRADE WINNER 2012

Providing full HD distribution of multiple HD sources to multiple locations, these flexible matrix models enable four source inputs to be distributed to four or eight screens. With additional cabling, full infrared control of the devices can also be achieved. Ideal for integrating Satellite HD boxes, Freeview and DVB HD and even integrating CCTV to multiple screens, outputting on HDMI cables.



3D COMPATIBLE

HDMI HIGH DEFINITION MULTIMEDIA INTERFACE

DIGITAL CONTENT PROTECTION DCP

WyreStorm

An emerging interface, commonly known in the industry as dual link HD-SDI and consisting essentially of a pair of SMPTE 292M links, is standardized in SMPTE 372M; this provides a nominal 2.970 Gbit/s interface used in applications (such as digital cinema or HDTV 1080P) that require greater fidelity and resolution than standard HDTV can provide.

These standards are used for transmission of uncompressed, unencrypted digital video signals (optionally including embedded Audio and/or Time Code) within television facilities; they can also be used for packetised data

NEW WYRESTORM SDI SOLUTIONS

FOR YOUR GREATER FIDELITY AND RESOLUTION NEEDS

SD/HD/3G-SDI 1-to-8 Distributor

Features:
- High Resolution Digital Multiplexer
- Multi-Video output: 1920 x 1080 (60Hz)
- Simultaneous output (HDMI, D-SUB, DVI), Loop Out
- Multi Language supported

Dimensions (WxHxD):

Part Number: SP-SDI-0108

SD/HD/3G-SDI 1-to-4 Distributor

Features:
- High Resolution Digital Multiplexer
- Multi-Video output: 1920 x 1080, 1280x1024, 1280x720, 1024x768
- Simultaneous output (HDMI, D-SUB, HD-SDI)
- Multi Language supported

Dimensions (WxHxD):

Part Number: SP-SDI-0104

Full product Spec Sheets available at www.wyrestorm.com

TRAINING

KNOWLEDGE IS POWER: WYRESTORM TRAINING

Our aim is to inform as much as possible to ensure those professionals installing our products not only have an innate knowledge of our entire range, but also a level confident the technology behind it and the industry itself.

Habitech and Invision Dealers attending bespoke training sessions at local venues and WS Swindon headquarters – more dates to follow. See Habitech and Invision websites for more details on Wyrestorm training possibilities or check the back pages in Essential Install for upcoming events.

We have custom built training facilities that provide a relaxed and comfortable environment at our new head office in Swindon

Online training resources and educational software – three modules with certificates generated. Each module must be completed before allowing access to the next. Possibility of offering discount incentive based on modules completed.

Progression through the modules will be accompanied by 'real-world' practical skills and knowledge that can used utilised on site for quicker, more efficient and cost effective installations so the project can be completed on time and on budget, allowing the installer to move on the next job.

WS is developing on-line training with educational software that will be available to download from the Wyrestorm website. We intend to have three modules with certificates generated - each module must be completed before allowing access to the next, with some discount incentives based on modules completed.

The idea is to potentially provide training in modules, so that delegates can pick and choose as desired, both through online distance learning and physical attendance at seminars run around the country or at our purpose built training facility in Swindon.

Although details are still being worked out, both on-line training and the seminars will include a combination of lectures, Power Point exercises and demonstrations, together with multiple choice questing to test knowledge and practical sessions for attendees to master the skills necessary for effective installation of equipment through to an advanced understanding of the myriad issues involved in modern HD distribution in a high end residential or commercial setting.

All materials will be provided and attendees will each receive a training pack containing everything they need to progress through the modules, together with hi res image files for vehicle graphics etc.

Once each module is completed, attendees would receive recognition/ certification. The practical training would be tailored to the attendee's level of expertise/confidence, with class sizes limited to ensure each attendee benefits from personal attention by the Wyrestorm trainer and is given ample opportunity to ask questions.

Successful graduates from the full programme will be provide with an official 'Wyrestorm Video Integrator Certificate and will automatically become eligible to join our Partnership Endorsement Programme, with their details included on Installer database on the Wyrestorm website.

INTRODUCTION TRAINING COURSE SYNOPSIS

The Introduction Training is a half day course for installers and project design staff new to HD video distribution and Wyrestorm Technologies. The course consists of both theory and a small practical session for up to 14 delegates in a comfortable and relaxed learning environment.

Attendees are encouraged to engage in the training sessions and ask questions during this Introduction to Wyrestorm and its HD distribution product range whilst building their confidence in specifying, installing and commissioning the WyreStorm product range.

- ATTENDEES KNOWLEDGE
- PPT PRESENTATION GLEN HARVEY PRODUCT TRAINER WYRESTORM
- PRACTICAL SESSION
- BEST PRACTICES, Q&A
- SUMMARY AND CERTIFICATE HAND-OUT

INTERMEDIATE TRAINING COURSE SYNOPSIS

The Intermediate Training is a one day course introduced to provide installers, project design staff and commissioning technicians detailed knowledge on Wyrestorm products in providing a complete solution in HD Video distribution.

The course consists of both theory and practical for up to 8 delegates in a comfortable and relaxed learning environment where attendees are encouraged to engage in the training sessions whilst building their confidence in specifying, installing and commissioning the WyreStorm product range.

- ATTENDEES KNOWLEDGE
- PPT PRESENTATION GLEN HARVEY PRODUCT TRAINER WYRESTORM
- PRACTICAL SESSION
- DESIGN SYSTEMS
- BEST PRACTICES, FAULT FINDING AND Q&A
- TEST
- SUMMARY AND CERTIFICATE HAND-OUT

ADVANCED TRAINING COURSE SYNOPSIS

The Advanced Training is a one day course introduced to provide installers, project design staff and commissioning technicians detailed knowledge on Wyrestorm products in providing a complete solution in HD Video distribution.

The Advanced course enables experienced installers to achieve the highest level of video distribution along with 3rd party integration, control and audio distribution where appropriate.

The course consists of both theory and practical for up to 8 delegates in a comfortable and relaxed learning environment where attendees are encouraged to engage in the training sessions whilst building their confidence in specifying, installing and commissioning the WyreStorm product range.

- ATTENDEES KNOWLEDGE
- PPT PRESENTATION GLEN HARVEY PRODUCT TRAINER WYRESTORM
- PRACTICAL SESSION
- BEST PRACTICES, FAULT FINDING AND Q&A
- TEST
- SUMMARY AND CERTIFICATE HAND-OUT

FAQS

CAT 5E OR 6?

While our equipment is tested and graded to Cat 5e cable standard; tests have shown that better results are achieved when using Cat6 cable. The lower gauge, thicker copper cores ensure better signal transfer. Newly installed cabling should always conform to Part P Regulation and BS 7671 (17th Edition), and should be terminated to 568B standard.

CAN I USE A SINGLE CAT 5E CABLE?

Although conventional transmission is considered to be two Cat 5e cables, it is possible to send the signal down a single cable if necessary. All of our pro-matrix switches and UTP splitters support single UTP mode, however in this mode IR control of sources and matrix switching is not possible. However using HDBaseT transmission; all of the twin cable features are supported with the added benefit of Ethernet and RS232 control.

HOW FAR CAN THE SIGNAL TRAVEL?

Under perfect transmission conditions our HD receivers will operate at 40, 50 or 100m or 200m (@1080p) depending on the model used. Perfect conditions mean no electrical interference, straight cable runs with no bends or kinks and no patch panels or wall outlets. If some of the above are factors in your installation then signal strength and bandwidth can be compromised. If a cable run is reaching the upper limit of the receivers' capabilities, then the signal can be boosted by way of an extender set (Rx-TX) or by simply using an in-line repeater. Our transmission signals can be repeated up to 5 times (250m) using a conventional TMDS signal or 7 times (700m) using HDBaseT technology.

WHAT ABOUT 3D?

All of our matrix switches and most of our extender products will pass-through a 3D Blu-ray signal. The Coax extender sets do not support frame sequential 3D (Blu-ray), but will still pass-through interlaced stereo-scopic 3D (Satellite etc.)

HOW DO I CONTROL THE SOURCES?

Most of our HDMI distribution products support some kind of IR pass-through from point-to-point extender sets to pro and HDBaseT matrices. Most of the range now supports wide-band IR meaning it is compatible with almost all IR devices available on the market. Our Pro and HDBaseT matrix range (Cat 5e) has IR pass-through from each of the outputs and has discrete IR outputs at the switch end, meaning you can have multiple identical sources yet the IR would be routed only to the applicable source.

DO I NEED POWER AT THE TV END?

Yes. Our HD display adaptors require a 5v power supply at the TV end to operate. It's important that these are powered locally and do not receive remote power from the rack as there can be issues resulting from voltage drop along the length of cable. Our new USB power cables overcome the problem of having a second mains outlet behind the TV. These useful leads draw the 5v from the USB socket on the TV to power the receiver, this also means that the receiver is only powered when the TV is on making the system more environmentally friendly.

WHY DO I NEED TO USE 2 CABLES?

Using our conventional pro (TMDS) transmission method the Video & Audio is sent along cable #2, IR and HDCP data is sent along cable #1.

Using our HDBaseT technology it's possible to send Audio (up to DTS Master), Video (up to 4k), Ethernet (10/100), and control (RS232 & 2-way IR) down a single Cat 5e cable.

IS YOUR EQUIPMENT COMPATIBLE WITH CURRENT HDMI STANDARDS AND FEATURES?

HDMI 1.4 refers to a list of "features" that a device is capable of supporting. These features include Ethernet channel, return audio channel, 3D etc. HDMI distribution equipment has no need to be fully 1.4 compliant but instead supports all of the relevant features such as 3D etc.

WHAT HAPPENS ABOUT SCREENS WITH DIFFERENT RESOLUTION CAPABILITIES?

When sending a signal point to point a TV will communicate it's capabilities to the source, then the source will output a suitable signal that compatible (i.e. 1080p Stereo audio). If you were to use a matrix switch with three 1080p screens and one 1080i screen, the resultant image would be 1080i across all screens. The matrix switches do not scale per output but instead negotiate with the source a signal that all screens are capable of supporting.

HOW DOES THE MATRIX COPE WITH HDCP?

HDCP (High Definition Copyright Protection) is a feature built in to HDMI devices to prevent theft of or illegal distribution of HD content. Unlike competing products, WyreStorm matrix switches are legal and comply with HDCP regulations. They do this by assigning a "key" to every display connected to the switch. HDCP "keys" are assigned to a display when connected to a HDMI device normally. This doesn't change when connected to a switch; it just assigns more of them.

I CAN GET 1080I BUT NOT 1080P AT A TV LOCATION

Firstly ensure that both the source is outputting 1080p and that the TV is Full HD 1080p screen. If this is the case then the receiver Cat 5e/6 or Coax may need setting up for long cable mode using the DIP switches. This useful feature uses an alternative Equalisation method to re-sync the signal over longer distances.

I CANNOT GET A SIGNAL OUT FROM MY A/V RECEIVER ALONG A CAT 5E EXTENDER SET

Check to ensure that the A/V Receiver isn't adding CEC (HDMI Control Protocol) to the outgoing signal, this can sometimes have an effect on the HDMI signal.

HDMI
High Definition Multimedia Interface

EDID
Extended Display Identification Data

HDCP
High Bandwidth Digital Content Protection

TMDS
Transition Minimized Differential Signaling

CAT 5E
Category 5 enhanced

RS232
Recommended Standard 232 control protocol

DTS
Digital Theatre System

THX
Derived from Tomlinson Holman's eXperiment and George Lucas' first movie in 1971: THX-1138

1080I/P
1080 horizontal lines scanned in i (interlaced) or p (progressive) format

DIP
(DIP switch) Dual in-line package

CEC
Consumer electronics Control

DVI
Digital Video Interface

SDI
Serial Digital Interface

DDC
Display Data Channel (Referring to Pins 17 & 18 in a HDMI plug that handle EDID & CEC)

UTP
Unshielded Twisted Pair

NEW WYRESTORM WEBSITE

YOUR FIRST PORT OF CALL FOR YOUR INFORMATION NEEDS

WE'VE BEEN BUSY

Spring sees several important launches for Wyrestorm, both in terms of new products and information.

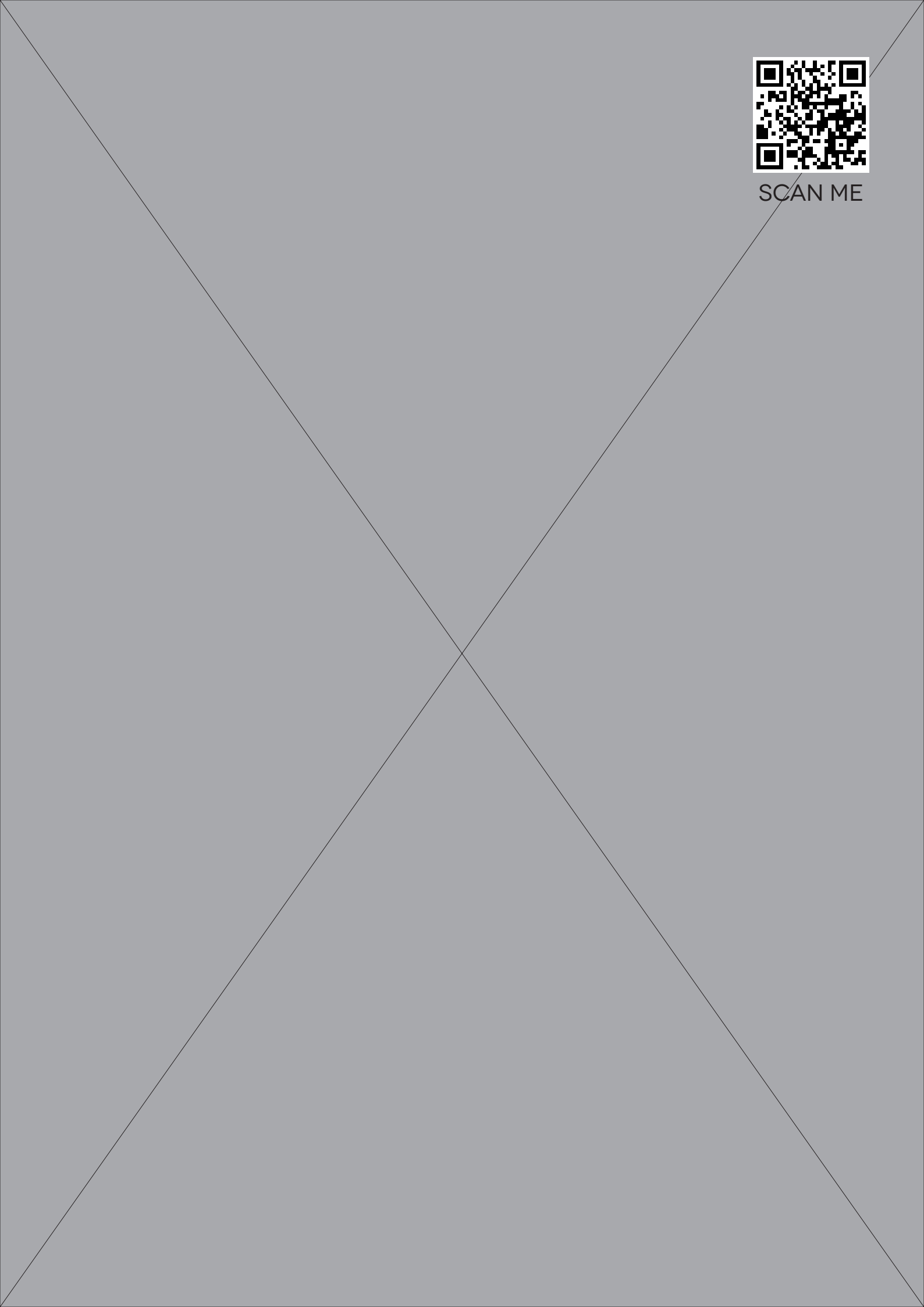
We thought the application of our company philosophy of talking with and listening to the industry when developing a new product should naturally extend to our website.

As such our aim with the new site is for it to serve as a comprehensive point of access to EVERYTHING customers, potential or existing, might need - whether detailed information and videos on all our products to help installers spec projects or make confident purchases, or to inform and support our ever-growing network of distribution partners around the world with manuals, wiring diagrams, case studies and a vast array of high resolution product images, promotional material, logos and up to date price information and technical assistance. The goal is information and access to it.

With global communication firmly in mind, the site is also designed with a focus on social media and as a feed of constant news – through homepage integration with Facebook and Twitter, providing real time news updates and technical bulletins to keep our customers as up to date as possible on all aspects of the company and our products.

WWW.WYRESTORM.COM

SPEC SHEETS • ONLINE VIDEOS • TECHNICAL BULLETINS • INTEGRATION PROTOCOLS


SCAN ME